



MAXX TRAK (CERAMIC PULLEY LAGGING)

Product Feature:

The MAXX TRAK Ceramic lagging system delivers an immediate, cost effective solution to conveyor belt drive problems and additional long term benefits to the total system!

The uniquely designed lagging and high quality materials used in the manufacture of the product, ensures continuous system operation under the most severe operating conditions where other systems fail!

Outstanding features of the lagging:

- Unmatched operating life and durability
- Unique tile design and layout
- Optimum contact between ceramic segments and belt
- Large smooth diameter contact Nub – No damage to belt cover
- Specially selected rubber compound
- Outstanding bond between tiles and rubber

Product testing and development:

- The present design of the Lagging System is the result of extensive testing and performance monitoring in the field.
- Flex tests to determine rubber to ceramic bond exceeded 400,000 cycles with no bond failure.
- No reported failure of tile loss since the introduction of the product in 1998. (This is the major cause of ceramic lagging failure today!)
- Achieves a minimum 5 -10 times longer operating life compared to rubber lagging

Product Characteristics:

- Tiles are independent of each other = No friction between ceramics
- 18 x 3.8 mm diameter nubs per tile. = More contact with the belt than other systems
- Ceramic-in-Rubber-Design = No tile loss
- Tiles are staggered = Better shear force distribution over pulley surface
- Tough, 6mm x 25 mm x 25 mm tile = Designed for optimum performance
- Exceptionally high quality wear resistant rubber ? Unsurpassed bond between rubber and tiles
- Made with special Bonding layer for higher adhesion upto 2 times higher than competitive products

Benefits of MAXXTRAK:

MAXX TRAK Ceramic Pulley Lagging delivers the following measurable benefits to the conveyor system:

- Proven Lower Belt Tensions : Longer lifetime of conveyor components like Belts, Splices and Bearings etc.
- Superior drive Traction : Eliminates Slippage. Sheds water and dirt easily.
- Improved Belt Tracking : Less belt edge damage.
- Exceptional Wear Life and Performance : Aluminum Oxide ceramic drive segments.
- Reduced Downtime and maintenance cost : Outstanding operating performance.
- Ceramic tile design greatly improves conveyor drive Traction



MAXX TRAK™
Ceramic Pulley Lagging



Higher friction values allow lower belt tension and reduced stress to the total system

Calculations Examples

Conveyer with 500 meters centre distance. 500 tons per hour

Belt 1500 mm wide 5 ply

Motor Power. 75 KW direct drive

Situation 1 Dry Conditions:

Sr. No	Lagging Type	Friction Factor	Belt Type	Maximum Belt Tension (kN)	Counterweight (tons)
1	Bare	0.37	800/4	77.5	7.7
2	Rubber	0.51	800/4	63	4.8
3	Ceramic	0.83	630/4	47	1.5

Situation 2 Wet and Clean

Sr. No	Lagging Type	Friction Factor	Belt Type	Maximum Belt Tension (kN)	Counterweight (tons)
1	Bare	0.15	1250/4	171	27
2	Rubber	0.39	800/4	77.5	7.7
3	Ceramic	0.78	630/4	48	2

Situation 3 Wet and Dry

Sr. No	Lagging Type	Friction Factor	Belt Type	Maximum Belt Tension (kN)	Counterweight (tons)
1	Bare	0.1	2000/4	232	39
2	Rubber	0.29	1000/4	102	12.8
3	Ceramic	0.52	800/4	62	4.6

Ceramic lagging ready for delivery for a major mine expansion project:



Availability and Selection of MAXX TRAK:

- Easy to handle strips – For In-Situ or work shop installation
- Strips are Custom sized to ensure maximum contact of the ceramic tile with the Conveyor belt.
- Strip dimensions – 15 mm thick x 318 mm wide x face width
- 20 mm and 25 mm thickness is available as requested
- Size selection - CDS Lagging ref # = Belt width
- Heavy duty Ceramic tile segment – 6 mm x 25 mm x 25 mm Prepared bonding surface (Bonding layer) for maximum adhesion to the steel pulley!

